

IN THE CLAIMS

Please amend the claims as follows:

1. (original) Polycrystalline alumina component with an additive characterized in that the alumina has an average crystal size  $\leq 2\mu\text{m}$ , and a relative density higher than 99.95% with a real in-line transmission RIT  $\geq 30\%$  measured over an angular aperture of at most  $0.5^\circ$  at a sample thickness of 0.8mm and with a single wavelength of light  $\lambda$ , and that the additive comprises at least one of the substances from the group consisting of oxides of Mg, Y, Er and La.
2. (original) Polycrystalline alumina component according to claim 1, characterized in that the additive is present in an amount of at least 10ppm.
3. (currently amended) Polycrystalline alumina component according to claim ~~1~~<sup>er-2</sup>, characterized in that the additive is  $\text{Y}_2\text{O}_3$  in a quantity of at least 50ppm and at most 1000ppm.
4. (currently amended) Polycrystalline alumina component according to claim ~~1~~<sup>er-2</sup>, characterized in that the additive contains  $\text{Er}_2\text{O}_3$  in a quantity of at least 50ppm and at most 5000ppm.

5. (currently amended) Polycrystalline alumina component according to claim ~~1 or 2~~, characterized in that the additive is  $\text{La}_2\text{O}_3$  in a quantity of at least 100ppm and at most 5000ppm.

6. (currently amended) Polycrystalline alumina component according to claim ~~1 or 2~~, characterized in that the additive is MgO in a quantity of at least 100ppm and at most 1000ppm.

7. (currently amended) Discharge lamp characterized in that the lamp is provided with a discharge tube having a wall of a ceramic as claimed in ~~any one of the preceding claims~~ claim 1.

8. (original) Lamp according to claim 6 characterized in that the discharge tube has an ionisable filling containing a metal halide.

9. (currently amended) Method for forming a polycrystalline alumina component as claimed in ~~any one of the preceding claims~~ claim 1 characterized in that the process includes the steps of

- preparing a slurry of corundum power with a mean grain size  $\leq 0.2\mu\text{m}$ ,

- adding a dopant, selected from a group formed by precursors containing one or more of the elements Mg, Y, Er and La and oxides of Mg, Y, Er and La,
- casting the slurry in a mould,
- drying and sintering of the moulded body thus formed, and
- performing a HIP treatment at a temperature of at least 1150°C for at least 2 hours.

10. (currently amended) Method according to claim 6, ~~7 or 8~~ wherein after the addition of the dopant the prepared slurry is slip cast in a mould.